

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT COOPERATION TREATY

In re application of:	Frank J. Juskey Daniel K. Lau Lawrence R. Thompson	Docket:	102402-200
International (PCT) Application No.:	PCT/US2004/004676	Art Unit:	N.A.
Filed:	February 17, 2004	Examiner:	N.A.
Assignee:	Advanced Interconnect Technologies Limited	Conf. No.	N.A.
Title:	LEAD FRAME WITH INCLUDED PASSIVE DEVICES		

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED
UNINTENTIONALLY UNDER 37 CFR 1.137(B) and STATEMENT OF FACTS IN
SUPPORT OF THE PETITION**

Attention: PCT Legal Staff
Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

The above-identified application became abandoned as to the United States because the fees and documents required by 35 U.S.C. 371(c) were not filed prior to the expiration of the time set in 37 CFR 1.495(b) or (c) as applicable. The date of abandonment is the day after the date on which the 35 U.S.C. 371(c) requirements were due.

01/06/2006 MKAYPAGH 00000118 231665 10563172

05 FC:1453 1500.00 DA

CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being:

- ☒ deposited with the United States Postal Service on the date shown below with sufficient postage as Express Mail, Label No. EV 614 555 355 US in an envelope addressed to Attention: PCT Legal Staff, Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
- ☐ transmitted by facsimile on the date shown below to the United States Patent and Trademark Office via facsimile at (703) 872-9306.

December 30, 2005

Signed: _____

Gregory S. Rosenblatt

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or fee; and
- (3) Verified statement that the abandonment was unintentional.

1. Petition fee

- ☐ Small entity – fee \$250.00 (37 CFR 1.17(I))
- ☐ Small entity statement enclosed herewith
- ☐ Small entity statement previously filed
- ☒ Other than small entity – fee \$1,500.00 (37 CFR 1.17(I))
- ☒ Authorization is given to charge the petition fee of \$1,500.00 to Deposit Account 23-1665; a duplicate copy is enclosed, if mailed. The Commissioner is authorized to charge any additional fees required or to credit any surplus to Deposit Account 23-1665.

2. Reply and/or fee

- A. The Reply and/or fee of the above-noted Office action in the form of a Request for the USPTO to begin national examination procedures under 35 U.S.C. 371(f):
- ☐ Has been filed previously on .
- ☒ Is enclosed herewith.

3. Verified statement

An adequate showing of the cause of the delay, and that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional follows.

At the request of Advanced Interconnect Technologies Limited (AIT), a provisional patent application, Serial No. 60/449,049, was filed with the United States Patent and Trademark Office on February 21, 2003 (TAB 1). A foreign filing license was granted on April 3, 2003.

A follow-up letter was sent to AIT on October 8, 2003 (TAB 2) asking whether any US non-provisional patent applications or foreign patent applications based on the provisional patent application were to be filed (TAB 2).

On October 21, 2003, AIT authorized the filing of a PCT International Application designating all States including the United States (TAB 3).

The PCT application, serial number PCT/US2004/004676 (TAB 4) was duly filed on February 17, 2004. Wiggin and Dana's computerized docketing system automatically set August 21, 2005 as the due date for 30 month national phase filing into the United States and foreign countries. (TAB 5).

On April 26, 2005, instructions were received from AIT to national phase file the application in China, Japan, Korea, Philippines and the EPO. (TAB 3). US national phase filing was understood from the October 21, 2003 instructions (TAB 3).

On July 21, 2005, national phase filing of all foreign (e.g. non-US) applications was completed. Neither the Docket Coordinator nor the attorney responsible for the US national phase filing remember filing a US national phase patent application. If, as described below, such an application was not filed, then **inadvertently, and without deceptive intent**, Wiggin and Dana's Docket Coordinator entered the July 21, 2005 completion date for US national phase filing as well (TAB 5). As a direct consequence of this action, the requirement to file in the United States before August 21, 2005 was deleted from the computerized docketing record and apparently never completed.

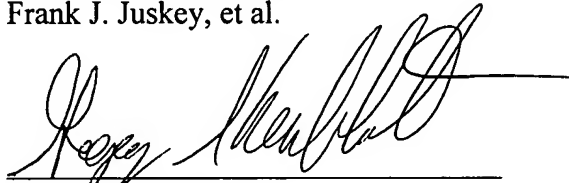
In October 2005, Timothy Olson, the Wiggin and Dana attorney responsible for this patent application family left Wiggin and Dana. During a review of AIT patent assets subsequent to Mr. Olson's departure, Gregory S. Rosenblatt, a Wiggin and Dana attorney, noted there was no entry for a US non-provisional patent application (TAB 3). Mr. Rosenblatt promptly questioned Mr. Olson and the Docket Coordinator who could not remember if a US non-provisional patent application had been filed. Mr. Rosenblatt then searched for a non-provisional patent application file and could not locate such a file. The Wiggin and Dana Deposit Account with the USPTO was also reviewed to determine if a filing fee for a US non-provisional application had been deducted. No such deduction entered.

Accordingly, it is the conclusion of Gregory S. Rosenblatt that a US national phase filing based on international application PCT/US2004/004676 was **unintentionally and without deceptive intent** most likely not filed by the August 21, 2005 30-month national phase deadline.

Entry of the attached delayed Request to enter the US national phase is respectfully requested.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Respectfully submitted,
Frank J. Juskey, et al.

A handwritten signature in black ink, appearing to read 'Gregory S. Rosenblatt', is written over a horizontal line.

Gregory S. Rosenblatt
Reg. No. 32,489

Date: December 30, 2005

CONTACT INFORMATION:

WIGGIN & DANA LLP

One Century Tower

New Haven, CT 06508-1832

Telephone: (203) 498-4566

Facsimile: (203) 782-2889

Email: grosenblatt@wiggin.com



10/563172
IAP6 Rec'd PCT/PTO 30 DEC 2005

Commissioner for Patents
Washington, DC 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FILE FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
60/449,049	02/21/2003		160	102402-100	1		

27267
WIGGIN & DANA LLP
ATTENTION: PATENT DOCKETING
ONE CENTURY TOWER, P.O. BOX 1832
NEW HAVEN, CT 06508-1832

CONFIRMATION NO. 6625

FILING RECEIPT



OC000000009768524

Date Mailed: 04/03/2003

Receipt is acknowledged of this provisional Patent Application. It will not be examined for patentability and will become abandoned not later than twelve months after its filing date. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Frank J. Juskey, Dublin, CA;
Daniel K. Lau, San Francisco, CA;
Lawrence R. Thompson, San Jose, CA;

If Required, Foreign Filing License Granted: 04/03/2003

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

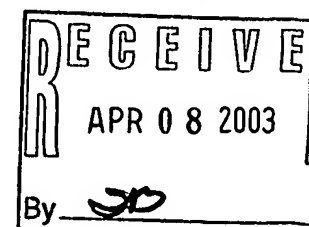
Early Publication Request: No

Title

Lead frame with included passive devices

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED



The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

Wiggin & Dana

Counsellors at Law

Wiggin & Dana LLP
One Century Tower
P.O. Box 1832
New Haven, Connecticut
06508-1832

203.498.4400
203.782.2889 fax
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10/563172
IAP6 Rec'd PCT/PTO 30 DEC 2005

VIA FEDERAL EXPRESS

October 8, 2003

Michael L. Huskins, Esq.
Vice President, Finance and Legal Affairs
Advanced Interconnect Technologies, Inc.
6800 Koll Center Parkway, Suite 220
Pleasanton, CA 94566

Re: United States Provisional Application Serial No. 60/449,049
Title: **LEAD FRAME WITH INCLUDED PASSIVE DEVICES**
Filed: February 21, 2003
Inventors: Frank J. Juskey, Daniel K. Lau & Lawrence R. Thompson
Our Ref: 102402-100

Response By: **November 8, 2003**

Dear Mr. Huskins:

Please be advised that the above-identified U.S. provisional patent application will expire on **February 21, 2004**. Before that date, a non-provisional patent application must be filed in the U.S. Patent & Trademark Office (USPTO). For your convenience, attached is a copy of the Abstract describing the subject matter of the application.

Accordingly, please let Greg Rosenblatt know by **November 8, 2003** if the above-identified Provisional Application is to be converted to regular status in order that this application may be continued in the United States Patent & Trademark Office.

Sincerely,



Lucille Gonsalves
Paralegal

Enclosure

cc - G.S. Rosenblatt w/enc.

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ABSTRACT

5 An electronic package is presented including a lead frame having a plurality of conductive leads, a plurality of bond pads, a semiconductor die mounted to the lead frame and electrically coupled to the bond pads and at least one passive component mounted to the lead frame and electrically coupled to the semiconductor die. In one embodiment, the passive component is comprised of one of a capacitor, an inductor and a resistor.

1158192357188.2

Y

From: SHEILA C. SEEMANN (203)498-4435
WIGGIN & DANA
265 CHURCH STREET
NEW HAVEN, CT, 06510



FedEx

To: Michael L. Huskins, Esq. (203)498-4435
Advanced Interconnect Technologies
6800 Koll Center Parkway, Suite 220

SHIP DATE: 08OCT03
WEIGHT: 1 LBS

Pleasanton, CA, 94566

Ref: 15819-2 102402-100



TRK # 7909 2481 1145 6801

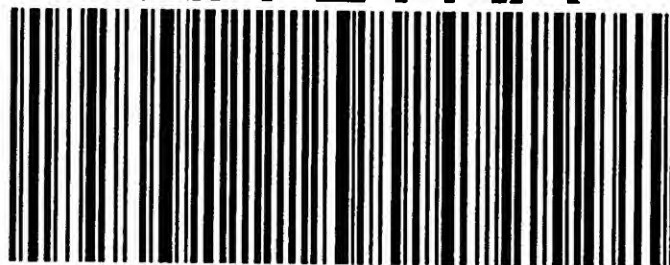
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Wiggin & Dana

Counsellors at Law

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www.wiggin.com

VIA FEDERAL EXPRESS COURIER

October 8, 2003

Michael L. Huskins, Esq.
Vice President, Finance and Legal Affairs
Advanced Interconnect Technologies, Inc.
6800 Koll Center Parkway, Suite 220
Pleasanton, CA 94566

Re: United States Provisional Application Serial No. 60/449,049
Filed on February 21, 2003
LEAD FRAME WITH INCLUDED PASSIVE DEVICES
Our Ref: 102402-100

CONVENTION FOREIGN FILING DEADLINE: FEBRUARY 21, 2004

Dear Mr. Huskins:

We are writing to inquire whether you wish to file any foreign patent applications corresponding to the above-identified United States application.

If a corresponding foreign patent application is filed within one year of the earliest United States filing date that foreign application will receive the benefit of that earlier United States filing date in most foreign countries. In other words, that foreign patent application will for most reasons be considered filed on the U.S. filing date. However, corresponding foreign patent applications filed after one year of the U.S. filing date do not receive that benefit, and in that case, it is possible a patent issuing from that earlier filed U.S. Patent Application (as well as any other intervening references) may become prior art and bar patent protection in certain foreign countries. Therefore, we generally recommend to foreign file within one year of the U.S. filing date.

Two routes exist for foreign filing patent applications. One route is the individual country (e.g., Japan) or region (e.g. Europe) filing. The second way is to first file a PCT Patent Application and later file the national phase patent applications in the individual countries or regions (either 18 or 30 months after the first U.S. filing date). If you decide to foreign file, the individual country route may be advantageous if you believe the claimed invention is currently commercially important and it is important to obtain foreign patent protection as quickly as possible. The PCT application may be advantageous if the commercial importance of the claimed invention and/or the patentability of the claimed invention is currently uncertain and deference of foreign filing costs is an important factor.

October 8, 2003

Page 2

It should be noted that the PCT application route generally results in later issued foreign patents (and thus shorter patent terms). Furthermore, the PCT Application route involves an overall greater cost than the individual country route cost because both a PCT application as well as the individual country application have to be filed and prosecuted. Also, please note that the PCT application route can be used for most countries, but not all countries.

In any event, you should recognize that foreign filing patent filing in some countries cannot be done because of certain events that happened before the U.S. filing date. For example, certain public uses, disclosures to others or sales of the claimed invention may bar foreign patent protection in some countries while not barring patent protection in the United States. Please indicate on the instruction sheet any commercialization or the like before the U.S. filing date events that may adversely effect obtaining patent protection in foreign countries.

Accordingly, if you wish to foreign file the above-noted U.S. patent application and obtain the benefits of the U.S. filing date, would you please so indicate on the attached sheet and then return that sheet to me before **November 8, 2003**. If your decision is not to foreign file, would you so indicate on the attached sheet and return it to me before **November 8, 2003**.

If you wish to file by the individual country or region route, please also indicate in the box provided which countries the application should be filed in. If you select European Patent Application, please select the countries in that region that you want the application. We will confirm your decision by return mail and provide you with the names of our foreign patent associates (i.e., foreign patent firms that file and prosecute applications in those countries) that will handle your case, as well as an estimate of the out-of-pocket costs involved for filing, prosecution and maintenance in each selected country or region.

We expect that the initial filing costs to be approximately \$5,000 - \$7,000 to file a regional application in the European Patent Office and approximately \$5,500 - \$7,000 to file an Application in Japan and approximately \$2,500 - \$3,500 for every other country in the attached country list. These filing costs do not include prosecution costs or the fees for converting the European Application into the respective European national patents or the annual maintenance fees for each country. The prosecution costs are very difficult to predict since each case is treated differently. As an example, a breakdown of the filing and prosecution fees and other fees in Europe and Japan are also shown in attached memoranda. The current maintenance fees for each major industrial country are also shown on another attached list.

October 8, 2003

Page 3

We require a retainer from your company for that estimated amount before foreign filing because of the large disbursements due foreign patent offices and foreign patent firms for their work in handling these matters.

If you wish to foreign file, but want to defer the decision on where to file, we can make a PCT filing for selected countries (see attached country list). The average estimated cost of the preparation and filing of a PCT application is approximately \$5,000 (which would include the Wiggin & Dana attorney's and paralegal's fees as well as PCT filing and the PCT Demand costs). The filing of the PCT application followed by the filing of Demand will allow you to defer the decision on where to file your foreign applications for up to 18 more months. We will also require a retainer from you for filing a PCT Application for this estimated amount.

If you wish, please call Gregory Rosenblatt at 203-498-4566 to discuss any specific foreign filing issues in more detail or to provide you with specific information as to any particular country of interest.

Sincerely,



Lucille Gonsalves
Paralegal

Enclosures (4)

cc: Gregory S. Rosenblatt

\\15819\\2\\427260.1

Advanced Interconnect Technologies

Case Number	Client/Matter	Attorney	Subcase	Case Typ	Application Number	Filing Date	Title	Inventors
102402	15819 / 2	GSR	100	PRO	60/449049	21-Feb-2003	LEAD FRAME WITH INCLUDED PASSIVE DEVICES	JUSKEY, FRANK J. LAU, DANIEL K. THOMPSON, LAWRENCE R.

Owner: ADVANCED INTERCONNECT TECHNOLOGIES

Remarks:

Abstract: An electronic package is presented including a lead frame having a plurality of conductive leads, a plurality of bond pads, a semiconductor die mounted to the lead frame and electrically coupled to the bond pads and at least one passive component mounted to the lead frame and electrically coupled to the semiconductor die. In one embodiment, the passive component is comprised of one of a capacitor, an inductor and a resistor.

PLEASE ENTER YOUR FOREIGN FILING DECISION
BELOW: FOREIGN FILING DUE - February 21, 2004

DO NOT FILE	FILE	INITIALS	DATE
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

COUNTRIES: (See List)

<input type="text"/>

LAST UPDATED 8/28/03

FOREIGN FILINGS - PCT COUNTRY LIST

Countries in which patent applications may be filed in the "National Phase" following a PCT application filing. This gives the applicant up to 30 months after the U.S. filing date to decide in which of these countries an application should be filed (within 12 months of the U.S. filing, file PCT application; 18 months after PCT filing, file National Phase):

Albania	Ecuador	Liberia	Sri Lanka
Algeria	Equatorial Guinea	Lithuania	Sudan
Antigua & Barbuda	Estonia	Macedonia	Swaziland
Armenia	European Patent*	Madagascar	Tajikistan
Australia	Gambia	Malawi	Trinidad & Tobago
Azerbaijan	Georgia	Mexico	Turkey
Barbados	Ghana	Mongolia	Turkmenistan
Belarus	Grenada	Morocco	Uganda
Belize	Hungary	Mozambique	Ukraine
Bosnia & Herzegovina	Iceland	New Zealand	United Arab Emirates
Botswana	India	Norway	United Republic
Brazil	Indonesia	Philippines	of Tanzania
Bulgaria	Israel	Poland	United States
Canada	Japan	Republic of Moldova	Uzbekistan
China	Kazakhstan	Romania	Viet Nam
Colombia	Kenya	Russian Federation	Yugoslavia
Costa Rica	Democratic People's	Saint Lucia	Zimbabwe
Croatia	Republic of Korea (North)	Sierra Leone	
Cuba	Republic of Korea (South)	Singapore	
Czech Republic	Kyrgyzstan	Slovak Republic	
Dominica	Latvia	Slovenia	
Egypt	Lesotho	South Africa	

*Countries in which an individual National Phase application, or a regional "European Patent" application may be filed following a PCT application (for total of 30 months post-U.S. filing):

Albania***	Finland	Lithuania***	Spain
Austria	France**	Luxembourg	Sweden
Belgium**	Germany	Monaco**	Switzerland & Liechtenstein
Bulgaria	Greece**	Netherlands**	The former Yugoslav Republic
Cyprus**	Hungary	Portugal	of Macedonia***
Czech Republic	Ireland**	Romania	Turkey
Denmark	Italy**	Slovak Republic	United Kingdom
Estonia	Latvia***	Slovenia**	

**In these countries, a European patent application must be filed; no individual national application is permitted.

***Extension State - Additional fee may be required.

FOREIGN FILINGS - NON-PCT COUNTRY LIST

Countries in which patent applications must be filed nationally within twelve (12) months of U.S. filing date to get the benefit of the U.S. filing date:

Argentina	Malaysia	Saudi Arabia	Venezuela
Bolivia	Pakistan	Taiwan	
Chile	Peru	Thailand	

Invention Data

Friday, December 23, 2005

Page: 1

Case Number: 102402

Client-Matter: 16832 - 4

Client Name: Advanced Interconnect Technologies, Inc.

Client Reference #:

Disclosure Status: Filed

Disclosure Date:

Owner: AITL

ADVANCED INTERCONNECT TECHNOLOGIES LIMITE

Attorney(s): GSR

LSG

Title: LEAD FRAME WITH INCLUDED PASSIVE DEVICES

Priority Country: United States of America

Priority Number: 60/449049

Priority Date: 21-Feb-2003

Abstract: An electronic package is presented including a lead frame having a plurality of conductive leads, a plurality of bond pads, a semiconductor die mounted to the lead frame and electrically coupled to the bond pads and at least one passive component mounted to the lead frame and electrically coupled to the semiconductor die. In one embodiment, the passive component is comprised of one of a capacitor, an inductor and a resistor.

Remarks: FOREIGN FILING:

10/21/03 - Per Michael L. Huskin's e-mail to LSG - File PCT (designating all States including U.S.) and Taiwan and file cases in the name of Advanced Interconnect Technologies Limited, a company incorporated under the laws of the Republic of Mauritius

4-26-05 - Per Marty Kennedy's e-mail to LSG - File National Phase in China, Japan, Korea, Philippines and EPO (designating Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and Liechtenstein, Turkey and the United Kingdom). Designate Hong Kong via EPO or China.

Inventors:

JUSKEY, FRANK J.

LAU, DANIEL K.

THOMPSON, LAWRENCE R.

Invention Data

Friday, December 23, 2005

Page: 2

Country Applications

Ctry	Sub Case	Case Type	Status	Application Number	Filing Date	Patent Number	Issue Date
AT	108	EPP	Pending	04711876.5	17-Feb-2004		
BE	108	EPP	Pending	04711876.5	17-Feb-2004		
BG	108	EPP	Pending	04711876.5	17-Feb-2004		
CH	108	EPP	Pending	04711876.5	17-Feb-2004		
CN	104	PCT	Pending	0480004702.1	17-Feb-2004		
CY	108	EPP	Pending	04711876.5	17-Feb-2004		
CZ	108	EPP	Pending	04711876.5	17-Feb-2004		
DE	108	EPP	Pending	04711876.5	17-Feb-2004		
DK	108	EPP	Pending	04711876.5	17-Feb-2004		
EE	108	EPP	Pending	04711876.5	17-Feb-2004		
EP	108	PCT	Published	04711876.5	17-Feb-2004		
ES	108	EPP	Pending	04711876.5	17-Feb-2004		
FI	108	EPP	Pending	04711876.5	17-Feb-2004		
FR	108	EPP	Pending	04711876.5	17-Feb-2004		
GB	108	EPP	Pending	04711876.5	17-Feb-2004		
GR	108	EPP	Pending	04711876.5	17-Feb-2004		
HU	108	EPP	Pending	04711876.5	17-Feb-2004		
IE	108	EPP	Pending	04711876.5	17-Feb-2004		
IT	108	EPP	Pending	04711876.5	17-Feb-2004		
JP	105	PCT	Pending	XXX	17-Feb-2004		
KR	106	PCT	Pending	05-7015419	17-Feb-2004		
LI	108	EPP	Pending	04711876.5	17-Feb-2004		
LU	108	EPP	Pending	04711876.5	17-Feb-2004		
MC	108	EPP	Pending	04711876.5	17-Feb-2004		
NL	108	EPP	Pending	04711876.5	17-Feb-2004		
PH	107	PCT	Pending	1-2005-501424	17-Feb-2004		
PT	108	EPP	Pending	04711876.5	17-Feb-2004		
RO	108	EPP	Pending	04711876.5	17-Feb-2004		

Invention Data

Friday, December 23, 2005

Page: 3

SE	108	EPP	Pending	04711876.5	17-Feb-2004
SI	108	EPP	Pending	04711876.5	17-Feb-2004
SK	108	EPP	Pending	04711876.5	17-Feb-2004
TR	108	EPP	Pending	04711876.5	17-Feb-2004
TW	102	ORD	Pending	093104345	20-Feb-2004
US	100	PRO	Converted	60/449049	21-Feb-2003
WO	101	ORD	Closed	US04/004676	17-Feb-2004

User ID: SBlake

Date Created: 20-Aug-2002

Last Update: 21-Oct-2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 September 2004 (10.09.2004)

PCT

(10) International Publication Number
WO 2004/077508 A2

(51) International Patent Classification⁷:

H01L

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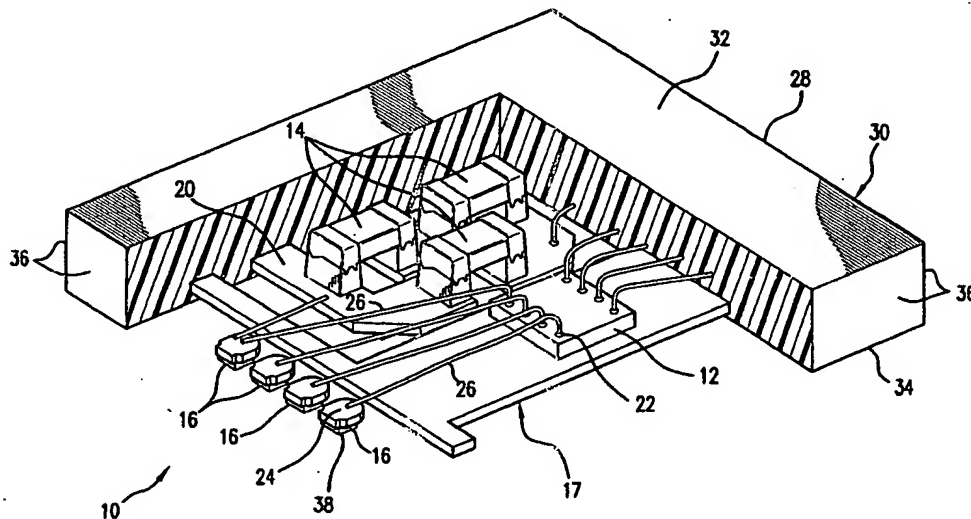
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(54) Title: LEAD FRAME WITH INCLUDED PASSIVE DEVICES



(57) Abstract: An semiconductor device package (10) includes a semiconductor device (die) (12) and passive devices (14) electrically connected to a common lead frame (17). The lead frame (17) is formed from a stamped and/or etched metallic structure and includes a plurality of conductive leads (16) and a plurality of interposers (20). The passive devices (14) are electrically connected to the interposers (20), and I/O pads (22) on the die (12) are electrically connected to the leads (16). The die (12), passive devices (14), and lead frame (17) are encapsulated in a molding compound (28), which forms a package body (30). Bottom surfaces (38) of the leads (16) are exposed at a bottom face (34) of the package (10).

Country Application

Friday, December 23, 2005

Page: 1

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Country Application

Friday, December 23, 2005

Page: 2

List Of Actions

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